G1.7.38

JUNO

Project:

Fixture Type:

Location:

Contact/Phone:

4" IC 900 LUMEN LED DOWNLIGH **NEW CONSTRUCTION** IC1LED (G4 09LM) RECESSED HOUSING



Dedicated LED, Air-Loc[®] sealed new construction housing with integral light engine • Double wall, shallow housing construction allows for fit in 2 x 6 construction • Can be completely covered with insulation • Fully sealed housing stops infiltration and exfiltration of air, reducing heating and air cooling costs without the use of additional gaskets • LED housing is designed to provide 50,000 hours of life and is compatible with many standard Juno trims • 5 year limited warranty on LED components.

ENVIRONMENTALLY FRIENDLY, ENERGY EFFICIENT

- No harmful ultraviolet or infrared wavelengths
- No lead or mercury, RoHS compliant
 Comparable light output to 75W incandescent

PRODUCT SPECIFICATIONS

LED Light Engine LED array attached to high purity aluminum, thermally conductive inner housing provides superior heat transfer to ensure long life of the LED • Replaceable light engine mounts directly to inner housing assembly and incorporates the latest generation, high lumen output LED array • LEDs are binned within a 3-step MacAdam Ellipse exceeding ENERGY STAR[®] requirements for superior fixture to fixture color uniformity • 2700K, 3000K, 3500K, or 4000K color temperatures available • 90 CRI minimum.

Optical System Two field interchangeable optics available in medium flood (45° beam angle) and wide flood (65° beam angle) • Computer-optimized reflector design with high reflectance finish coupled with a high transmission diffusing lens conceals the LEDs and produces uniform aperture luminance • Deep regression of lens produces a low glare, efficient system that can produce over 900 lumens with select trims (see page 2 for details) using less than 12W

Aesthetic Trim Selections Compatible with wide selection of existing Juno trims • Shadow free, knife edge design blends seamlessly into ceiling. **LED Driver** Choice of dedicated 120 volt (120) driver or universal voltage (MVOLT) drivers that accommodate input voltages from 120-277 volts AC at 50/60Hz • Power factor > 0.9 at 120V input • 120 volt only driver is dimmable with the use of most incandescent, magnetic low voltage and electronic low voltage wall box dimmers • Universal voltage drivers are dimmable with the use of most 0-10V wall box dimmers • For a list of compatible dimmers, see <u>JUNOICLED-DIM</u> • Mounted inside housing for easy access from below ceiling.

Life Rated for 50,000 hours at 70% lumen maintenance.

Labels ENERGY STAR® Certified when used with select trims • Can be used to comply with 2019 Title 24, Part 6, JA8 high efficacy LED light source requirements with select trims • UL listed for U.S. and Canada through-branch wiring, damp locations •Union made • UL and cUL • CP option is compatible with spray foam insulation with an R-value of 3.2 per inch or less.

Testing All reports are based on published industry procedures; field performance may differ from laboratory performance. Specifications subject to change without notice.

HOUSING FEATURES

Housing Designed for use in IC (insulated ceiling) or non-IC construction Aluminum housing sealed for Air-Loc® compliance
 Housing is vertically adjustable to accommodate up to a 1½" ceiling thickness.

Junction Box Pre-wired junction box provided with (6) ½" and (1) ¾" knockouts, (4) knockouts for 12/2 or 14/2 NM cable and ground wire • UL listed and cUL listed for through-branch wiring, maximum 4 #12 branch circuit conductors • Junction box provided with removable access plates • Knockouts equipped with pryout slots • Quick connect electrical connectors supplied as standard for fast, secure installation.

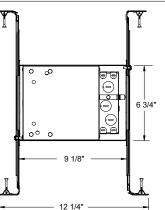
Mounting Frame 22-gauge die-formed galvanized steel mounting frame • Rough-in section (junction box, mounting trame, housing and bar hangers) fully assembled for ease of installation.

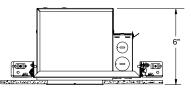
Real Nail 3 Bar Hangers Patented (US Patent D552,969) Real Nail® a bar hangers: telescoping system permits quick placement of housing anywhere within 24" O.C. joists or suspended ceilings • Includes removable nail for repositioning of fixture in wood joist construction • Integral T-bar notch and clip for suspended ceilings.



OPEN TRIMS

DIMENSIONS





4 1/2" CEILING CUTOUT

* Nominal input wattage @ 120-volt operation with dedicated 120-volt driver under stable operating conditions.

One Lithonia Way • Conyers, GA 30012 • Phone 1-800-705-SERV (7378) • Visit us at www.acuitybrands.com CuityBrands. Printed in U.S.A. ©2017-2023 Acuity Brands Lighting, Inc. Rev. 03/9/23

OPEN TRIMS

4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION IC1LED (G4 09LM) RECESSED HOUSING

ELECTRICAL DATA

ELECTRICAL DATA

Dedicated 120	Only Driver Option (120 FRP	PC)
	120V	
Input Power	11.6W (+/-5%)	
Input Current	0.10A	
Frequency	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15,	
	Class B (residential)	
Minimum starting temp	-25°C	

Universal Vol	tage				
	MVOLT EZ	10 and EZ1	MVOLT ZT10 and ZT1		
	120V	277V	120V	277V	
Input Power	11.2W (+/-5%)	12.2W (+/-5%)	11.2W (+/-5%)	12.2W (+/-5%)	
Input Current	0.10A	0.05A	0.10A	0.05A	
Frequency	50/60Hz	50/60Hz	50/60Hz	50/60Hz	
EMI/RFI	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	FCC Title 47 CFR, Part 15, Class B (residential)	
Minimum starting temp	-20°C	-20°C	-20°C	-20°C	

ORDERING INFORMATION Housing and trim can be ordered together or separate, but will always ship separately.

Example: IC1LED G4 09LM 27K 90CRI 120 FRPC

Series		Gene	ration	Lumens		Color	Temperature	CRI		Distribut	ion
IC1LED	4" LED IC New Construction Downlight	G4	Generation 4	09LM	900 Nominal Lumens	27K	2700K	90CRI	90+ CRI	(blank)	Medium Flood (45°)
						30K	3000K			WFL	Wide Flood (65°)
						35K	3500K				
						40K	4000K				

Voltage/Driv	er	Terri	itory
120 FRPC	120V Forward/Reverse Phase Cut, 5% dim	CP	Chicago Plenum
MVOLT ZT10	Multi-Volt (120-277), 0-10V, 10% dim		
MVOLT ZT1	Multi-Volt (120-277), 0-10V, 1% dim		
MVOLT EZ10	Multi-Volt (120-277), eldoLED 0-10V, 10% dim		
MVOLT EZ1	Multi-Volt (120-277), eldoLED 0-10V, 1% dim		

Trim/Description



4" Pinhole with Integral Shield - White

ZI	4" Downlight Baffle Trim - Black Baffle, Bronze Trim Ring
	4" Downlight Baffle Trim - Black Baffle, Black Trim Ring
	4" Downlight Baffle Trim - Black Baffle, Satin Chrome Trim Ring
ľ	4" Downlight Baffle Trim - Black Baffle, White Trim Ring
H	4" Downlight Baffle Trim - White Baffle, White Trim Ring
I	4" Downlight Cone Trim - Black Cone, White Trim Ring
	4" Downlight Cone Trim - Clear Alzak® Cone, White
/LI	1" Downlight Cone Trim - Haze Cone White Trim



4" Downlight Baffle Trim - White Baffle, White Trim Ring 4" Downlight Cone Trim - Black Cone, White Trim Ring 4" Downlight Cone Trim - Clear Alzak® Cone, White 4" Downlight Cone Trim - Haze Cone, White Trim 4" Downlight Cone Trim - Wheet Haze Cone, Bronze Trim Ring 4" Downlight Cone Trim - Wheet Haze Cone, White Trim 4" Downlight Cone Trim - Wheet Haze Cone, White Trim 4" Downlight Cone Trim - Wheet Haze Cone, White Trim

Trim Size: 5″ 0.D. Alzak is a registered trademark of Alcoa Corp. Note: In Canada when insulation is present, Type IC fixtures must be used.

¹ Multi-Volt: T24 @ 30K, 35K, 40K only

4" IC 900 LUMEN LED DOWNLIGHT NEW CONSTRUCTION

IC1LED (G4 09LM) RECESSED HOUSING

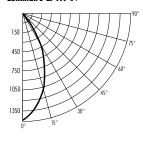
OPEN TRIMS

PHOTOMETRICS

PHOTOMETRIC REPORT

Test Report #: PT02141303R Catalog No: IC1LED G4 09LM 35K 90CRI 120 with 14 WWH Trim

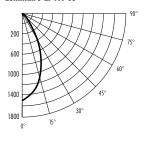
Luminaire Spacing Criterion: 0.72 Luminaire LPW: 81



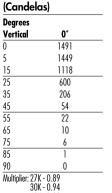
PHOTOMETRIC REPORT

Test Report #: LTL26327R Catalog No: IC1LED G4 09LM 35K 90CRI 120 with 17 CWH Trim

Luminaire Spacing Criterion: 0.70 Luminaire LPW: 85



CANDLEPOWER DISTRIBUTION



40K - 1.03

CANDLEPOWER

0'

1508

1482

1104

620

254

82

26

3

0

0

0

DISTRIBUTION

(Candelas)

Degrees

Vertical

0

5 15

25

35

45

55

65

75

85

90

Multiplier: 27K - 0.89

30K - 0.94 40K - 1.03

AVERAGE INITIAL FOOTCANDLES

 Ceiling 80% Wall 50% Floor 20%

 Spacing
 RCR1
 RCR3
 RCF3

spacing	N SA I	NCR0	n en s
4.0´	65	57	50
5.0´	42	36	32
6.0´	29	25	22
7.0´	23	20	18
8.0´	18	16	14
9.0´	14	12	11
10.0´	10	9	8

ZONAL LUMEN	SUMMARY
--------------------	---------

Zone	Lumens	%Lamp	%Fixture
0 - 30°	717	N/A	76.5
0 - 40°	852	N/A	91.0
0 - 60°	917	N/A	98.0
0 - 90°	936	N/A	100.0

AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60'x60' room)

Ceiling 80% Wall 50% Floor 20%					
Spacing	RCR 1	RCR3	RCR5		
4.01	68	59	52		
5.0´	44	38	33		
6.01	30	26	23		
7.0´	25	21	19		
8.0´	19	17	15		
9.0´	15	13	11		
10.01	11	10	8		

ZONAI		N SUM	MARY
Zone	Lumens	%Lamp	%Fixture
0 - 30°	725	N/A	73.9
0 - 40°	887	N/A	90.5
0 - 60°	977	N/A	99.6
0 - 90°	981	N/A	100.0

INITIAL FOOTCANDLES (One Unit, 11.6W, 44.2° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	93.2	3.2′
6	41.4	4.9′
8	23.3	6.5′
10	14.9	8.1′

LUMINANCE (Average cd/m²)

Average		
Luminance		
12517		
6382		
4034		
4069		
2014		
	Luminance 12517 6382 4034 4069	

INITIAL FOOTCANDLES

(One Unit, 11.6W , 43.9° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4	94.3	3.2′
6	41.9	4.8′
8	23.6	6.4′
10	15.1	8.1′

LUMINANCE (Average cd/m²)

Average		
Degrees	Luminance	
45	18733	
55	7144	
65	1077	
75	0	
85	0	
00	•	

Fixtures tested to IES recommended standard for solid state lighting per UM-79-08. Photometric performance on a single unit represents a baseline of performance for the fixture. Results may vary in the field.

Z